



# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित

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इस भाग में भिन्न पृष्ठ संख्या की जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

### भाग III—खण्ड 2

### PART III—SECTION 2

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[ Notifications and Notices issued by the Patent Office relating to Patents and Designs ]

THE PATENT OFFICE  
(PATENTS & DESIGNS)  
Calcutta, the 4th September 1976

#### CORRIGENDUM

In the Gazette of India, Part-III, Section-2, dated the 3rd July, 1976 in Page 585 column 1, under the heading "Cessation of Patents".

*Delete 113172*

#### APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

29th July, 1976

1354/Cal/76. Kalyan Kumar Banerjee. Improvements in or relating to concrete benches.

1355/Cal/76. Marvin Glass & Associates. Stamping kit.

1356/Cal/76. Rhone-Poulenc Industries. Chemical compositions.

1357/Cal/76. Imperial Chemical Industries Limited. Hydroxy acids. (August 21, 1975).

30th July, 1976.

1358/Cal/76. Britax Ignition and Carburation Limited. Improvements in or relating to ignition systems for internal combustion engines. (August 16, 1975).

1359/Cal/76. The General Electric Company Limited. Improvements in or relating to apparatus for monitoring high alternating voltages. (August 5, 1975).

227 GI/76

1360/Cal/76. UOP Inc. Process for initiating and controlling dense-bed oxidation of coke and catalyzed oxidation of CO to CO<sub>2</sub> in an FCC regeneration zone.

1361/Cal/76. UOP Inc. Use of guard beds in hydrocarbon conversion with an acidic multimetallic catalytic composite. [Addition to No. 2011/Cal/75].

1362/Cal/76. Tavkozlesi Kutato Intezet. Travelling-wave tube amplifier.

1363/Cal/76. Stauffer Chemical Company. Diphenyl ether amides.

1364/Cal/76. Sri Mihir Kumar Roy and Sri Achinta Kumar Roy. A patent relating to a novel internal combustion cum vacuum engine and for improvements relating to internal combustion engines operating with oxygen and hydrogen or air and hydrogen (in gaseous state) as fuel.

31st July, 1976

1365/Cal/76. Stanadyne, Inc. Fuel injection pump and governor and timing control system therefor.

1366/Cal/76. Cassella Farbwerke Mainkur Aktiengesellschaft. Water-soluble azo dyestuff. [Addition to No. 133145].

1367/Cal/76. Creusot-Loire. A method of blowing a smelting shaft furnace.

1368/Cal/76. USS Engineers and Consultants, Inc. Torch and cutoff table arrangement.

1369/Cal/76. Bharat Heavy Electricals Ltd. Improvements in or relating to horizontal axis wind mills.

1370/Cal/76. Bharat Heavy Electricals Ltd. Improvements in or relating to gear boxes.

1371/Cal/76. Bharat Heavy Electricals Ltd. Improvements in or relating to wind mills in other words wind energy converters.

1372/Cal/76. Bharat Heavy Electricals Ltd. Improvements in or relating to horizontal axis wind mills.

1373/Cal/76. Institute Elektrosvarki Imeni E.O. Patona Akademii Nauk Ukrainskoi. A process for the preparation of a wear-resistance composite material. [Divisional date December 12, 1973].

*2nd August, 1976.*

1374/Cal/76. Combustion Engineering, Inc. High energy arc ignitor for burner.

1375/Cal/76. British Gas Corporation. Gas making. (September 29, 1975).

1376/Cal/76. Societe Alsacienne De Constructions Mecaniques De Mulhouse. A weft-inserting needle for shuttleless weaving looms.

1377/Cal/76. Dresser Industries, Inc. Temperature compensation for liquid filled pressure gauge.

*3rd August, 1976*

1378/Cal/76. P. Kumar and N. P. Saksena. Semi-continuous ball casting machine.

1379/Cal/76. Intreprinderea DE Medicamente Bucuresti. Composition based on readily assimilable, high soluble calcium and magnesium organic salts and its preparation method.

1380/Cal/76. Mrs. Kanta Khanna. A dispensing or vending machine.

1381/Cal/76. Carlos Diez De Sollano Y Ortega and Manuel Biedma Vaquero. Power generator and motor for handling fluids.

1382/Cal/76. BBC Brown, Boveri & Company Limited. Control valve.

1383/Cal/76. Klockner-Huboldt-Deutz Aktiengesellschaft. Method of grinding a material to be ground by means of a vibration mill and a vibration mill for carrying out the method.

1384/Cal/76. G. D. Societa Per Azioni. An improved, rotary head device, for supplying cigarettes to the feeding hopper of a cigarette packing machine.

1385/Cal/76. ASPRO, Inc. Speed-responsive tag axle control system.

1386/Cal/76. UOP Inc. Fluidized catalyst regeneration by coke oxidation in a dense phase bed and catalyzed carbon monoxide conversion in a dilute phase transport riser. [Addition to No. 1228/Cal/73].

1387/Cal/76. Saunders-Reeve Engineering Limited. Railway track construction and pad therefor.

1388/Cal/76. Bristol-Myers Company. Process for the preparation of 6-D-( $\alpha$ -amino- $\alpha$ -(p-hydroxyphenylacetamido) penicillanic acid. [Divisional date May 15, 1975]. (June 5, 1974).

1389/Cal/76. Poliglas, S.A. An improved process for obtaining fibers and filaments of thermoplastic materials.

*4th August, 1976*

1390/Cal/76. Imperial Chemical Industries Limited. Prostane derivatives. (August 22, 1975).

1391/Cal/76. The Board of the Rubber Research Institute of Malaysia. Preservation of natural rubber latex. (August 20, 1975).

1392/Cal/76. Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for preparation of fine grain solid cyanochlorides.

1393/Cal/76. CCL Systems Limited. Improved swaging die and press. (August 4, 1975).

1394/Cal/76. Societe Alsacienne DE Construction Mechaniques De Mulhouse. A shuttleless weaving loom of the single or double layer type.

1395/Cal/76. Taykозлеси Kutato Intezet. Cooling system with a natural air stream for the air-proof container of an out-door electronical equipment.

1396/Cal/76. Anc S.p.A. Method for removing the incrustations from the components parts of polymerizers of vinyl. Chloride in suspension which are in contact with the gaseous phase.

1397/Cal/76. N. Maruyama. Liquid heating apparatus.

1398/Cal/76. Union Carbide Corporation. A method of preparing carbomyl halides. [Divisional date July 7, 1975].

1399/Cal/76. Union Carbide Corporation. A method of preparing carbomyl halides. [Divisional date July 7, 1975].

#### APPLICATION FOR PATENTS FILED AT THE (BOMBAY BRANCH)

*19th July, 1976*

241/Bom/76. M. S. Ghate. Improvements in and round cookers using gaseous fuel to economise it.

242/Bom/76. B. G. Shirke & Company Private Limited. Improvements in or relating to construction of frames for tenements, houses industrial sheds farm houses and the like.

*20th July 1976*

243/Bom/76. (Mrs.) Joyce Pereira. Improvements in or relating to fasteners for use in safety belts and the like. [Addition to No. 104640].

*21st July 1976*

244/Bom/76. S. K. Sharma. Electronic ignition system for internal combustion engines.

245/Bom/76. Hoechst Pharmaceuticals Limited. Process for the isolation of coleforsin, a pharmacologically effective substance from plants belonging to the labiate family.

246/Bom/76. G. G. Puri. A reflector-concentrator modified sterling engine-process and a aqua ammonia absorber gas-turbine/expansion engine-process for using solar energy for power needs and appliances therefor.

*22nd July, 1976*

247/Bom/76. S. Z. Thakare. Multipurpose tillage implement.

248/Bom/76. G. C. Virchand Jain. Improvements in or relating to devices for filing papers or the like.

*23rd July, 1976*

249/Bom/76. D. S. Naik. Hot fluid steam stanter.

250/Bom/76. B. C. Sanghavi. New file corners.

251/Bom/76. The Pratap Spinning, Weaving & Manufacturing Company Limited. A selvedge price stamping device.

#### APPLICATION FOR PATENTS FILED AT THE (MADRAS BRANCH)

*28th July, 1976*

136/Mas/76. A. G. Naidu Govindarajulu. Allied high velocity travelling cleaners with automatic discharge device.

*29th July, 1976*

137/Mas/76. (Mrs.) Dugganapalli Ram Geetha Mohan. A lock for the fuel cock of vehicles.

138/Mas/76. Indian Institute of Technology. A method of preparing a foundry sand composition for use in moulding and casting.

139/Mas/76. Brakes India Limited. A brake shoe assembly.

30th July 1976

140/Mas/76. The South India Textile Research Association. A chemical method of interfacially depositing synthetic polymers into the cellulose lattice so as to prolong cellulosics life.

141/Mas/76. M. P. Govind. Finned heat exchanger surface.

142/Mas/76. M. P. Govind. Integral finned heat exchanger surface.

#### ALTERATION OF DATE

140065. }  
89/Cal/73. } Ante-dated to 28th March, 1969.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in the opposing the grant of patents on any of the applications concerned, may at any time within four months of the date of this issue or within such further period not exceeding one month applied for on form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months give notice to the Controller of Patents at the appropriate office as indicated in respect of each such application, on the prescribed form 15 of such opposition. The written statement of opposition should be filed along with the said notice or within one month from its date as prescribed in Rule 36 of the Patents Rules, 1972.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8 Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (Postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that Office.

CLASS 128A. I.C.-A61F 13/20. 140011.

METHOD AND APPARATUS FOR APPLYING THE FREE END PORTION OF A WITHDRAWAL STRING TO ONE END FACE OF A ROLL OF NON-WOVEN FABRIC AS A BLANK FOR A TAMPON PARTICULARLY FOR FEMALE HYGIENE AND A TAMPON MADE BY THE AFOREMENTIONED METHOD AND APPARATUS.

*Applicant* : DR. CRL HAHN GMBH, OF KAISERSWERTHER STRASSE 270, D-4000 DUSSELDORF, FEDERAL REPUBLIC OF GERMANY.

*Inventors* : DIPLO. ING. NIELS WARNCKE AND WOLFGANG JOHST.

Application No. 2374/Cal/73 filed October 26, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 11 Claims.

A method of applying the free end portion of a withdrawal string connected to a strip of non-woven fabric, to one end face of a roll formed by rolling up the strip of non-woven fabric as a blank for a tampon, particularly for female hygiene, in which method before the strip is rolled up, the free end portion of the withdrawal string is moved into a position extending away from the strip by suction which is maintained during the rolling up of the strip, to hold said free end portion in retaining means, said free end portion then being withdrawn from its retaining means as the roll is conveyed to a withdrawal string applying station at which said free end portion is introduced by suction into a cylinder and is then forced in disordered arrangement against said one end face of the roll.

CLASS 68D & 69B. I.C.-H01h 75/00, H02h 3/00. 140012.

APPLIANCE FOR SELECTIVE PROTECTION AGAINST SHORT-CIRCUIT WITH CURRENT-LIMITING CIRCUIT BREAKERS IN SERIES OF A LOW-VOLTAGE DISTRIBUTION APPARATUS.

*Applicant* : KOMBINAT VEB ELEKTRO-APPARATEWERKE BERLIN-TREPTOW, AT HOFFMANNSTRASSE 15-26, 1193 BERLIN-TREPTOW, GERMAN DEMOCRATIC REPUBLIC.

*Inventor* : DR. JURGEN KEITEL.

Application No. 2420/Cal/73 filed November 1, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims

Device for selective short-circuit protection in a low voltage distribution gear, with current-limiting circuit breakers placed in a row, which contain a release system, which opens the contacts even before the locking cam is released, characterized thus, that each circuit breaker (1, 1') has an electro-mechanical energy transformer 4 which blocks the release of the locking cam and an impulse giver (5), which can be operated by means of the kinematical processes released by the release system or on the other hand by the pressure or light effects of the switch arc the impulse giver of each respective succeeding switch being connected via a transmission line (12) with the closing magnet of the preceding switch.

CLASS 29D. & 146 C. I.C.-G06K 5/02, 15/14. 140013.

#### MAGNETIC RECORDING VERIFICATION.

*Applicant* : BURROUGHS CORPORATION, AT BURROUGHS PLACE, DETROIT, MICHIGAN 48232, UNITED STATES OF AMERICA.

*Inventor* : MICHAEL JOHN HAZZARD.

Application No. 2467/Cal/73 filed November 9, 1973.

Convention date October 19, 1973/(48802/73) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 11 Claims.

Apparatus for receiving and sending signals to a digital processor, for bit-by-bit verification, immediately upon recording of digital data serially recorded onto a magnetic medium, including a dual write-read head and a shift register having a parallel input and output and a serial output connected to the write portion of said dual head, comprising :

means for generating strobe pulses and then feeding same to said recording head;

means responsive to said generated strobe pulses for controlling the shifting of said shift register;

means associated with the parallel output of said shift register and with said read head and responsive to said generated strobe pulses for non-destructively storing as parallel-bit characters a portion of the data residing in said shift register and responsive to the strobe pulses read from said medium for making available each character stored;

means for comparing data as read from the medium with said available characters on a bit-by-bit basis; and

means for generating an alarm when the respective bits do not compare.

CLASS 206D + 1. I.C.-H04b 9/00. 140014.

#### IMPROVEMENTS IN OR RELATING TO MICROWAVE PULSE TRANSMITTERS.

*Applicant* : SIEMENS-ALBIS AKTIENGESELLSCHAFT OF ALBISRIEDESTRASSE 245, 8047 ZURICH, SWITZERLAND.

*Inventors* : ALFRED GRAU AND HANS-RUDOLF FRITSCHI.

Application No. 70/Cal/74 filed January 10, 1974.

Convention date January 31, 1973/(4977/73) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

A microwave pulse transmitter of the type in which a high voltage rectifier circuit and ensuing pulse generator are provided in order to generate a high voltage input pulse for the transmitter tube, the high voltage rectifier circuit consisting of a rectifier that is supplied directly from an a.c. supply, when operating, without the interposition of a transformer and a d.c./d.c. converter being provided to form the requisite high voltage input and in which the power of the high frequency pulse is maintained constant by providing at the output of the rectifier circuit a switching stage that is controlled by a controller independence upon a voltage derived from the tube supply current and produces a control current pulsing at the pulse repetition frequency of said pulse generator with a variable mark-space ratio the supply of the control current to said switching stage being effected through a photo-coupler and said switching stage being connected to said d.c./d.c. converter via a shunt diode and an LC element.

CLASS 67C. I.C.-B21b 39/00. 140015.

POSITION TRANSDUCER ARRANGEMENT.

*Applicant* : DAVY-LOEWY LIMITED (FORMERLY DAVY AND UNITED ENGINEERING COMPANY LIMITED), OF PRINCE OF WALES ROAD SHEFFIELD S9 4EX, YORKSHIRE, ENGLAND.

*Inventor* : ROY CLEGG.

Application No. 95/Cal/74 filed January 15, 1974.

Convention date January 16, 1973/(2176/73) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

A position transducer arrangement in which one or more AC position transducers are energised by the output signal of a variable amplitude oscillator and the output signals of the oscillator and the or each transducer are demodulated in turn by the same demodulator and the demodulated oscillator signal is compared with a reference voltage to produce a difference signal and said difference signal is employed to adjust the amplitude of the oscillator in the sense to reduce said difference signal substantially to zero.

CLASS 14A, +A<sub>2</sub>. I.C.-H01m 1/06. 140016.

SINGLE BATTERY VENT PLUG.

*Applicant* : GLOBE-UNION INC., OF 5757, NORTH GREEN BAY AVENUE, MILWAUKEE, WISCONSIN 53201, U.S.A.

*Inventor* : ROY ERVING HENNEN.

Application No. 126/Cal/74 filed January 17, 1974.

Addition to No. 1582/72.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims.

Improvement in or modification of the vent plug disclosed and claimed in Parent Patent Specification No. 137165 wherein said plug for a single vent of a storage battery filling port comprises a hollow body member defining a first compartment, said body member having a plug portion for engaging the filling port, said plug portion having a vent opening formed therein for connecting the interior of said first compartment with the interior of said battery; said body member defining a second compartment adjacent said first compartment, said second compartment having an outlet opening to the exterior of said hollow body member; the ratio of volume V in cubic inches of said second compartment to the area A in square inches of said outlet opening being within the range of  $V/A = 2:1$  to  $0.5:1$ ; and a porous diffuser disposed between said first and second compartments whereby gases from said battery may pass through said vent opening into said first

compartment, through said diffuser into said second compartment and come out through said outlet opening.

CLASS 154D & 203. I.C.-B65h 23/00. 140017.

SHEET DELIVERY APPARATUS FOR A SHEET FED PRINTING PRESS.

*Applicant* : MILLER PRINTING MACHINERY CO., 1101 REEDSDALE STREET, PITTSBURGH, PENNSYLVANIA 15233, UNITED STATES OF AMERICA.

*Inventor* : WILLI WEISGERBER.

Application No. 336/Cal/74 filed February 16, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

Sheet delivery apparatus for a sheet fed printing press comprising, a cylindrical sheet supporting member positioned adjacent  $\phi$  to an impression and blanket cylinder of a printing press, said cylindrical sheet supporting member having a shaft journaled in a press frame, a pair of endless drive sprockets non-rotatably mounted on said shaft on opposite sides of said cylindrical sheet supporting member, endless delivery chains received about said delivery drive sprockets and having a plurality of transversely extending gripper bars secured therebetween in preselected spaced relation to each other said gripper bars each having a plurality of gripper fingers and gripper pads arranged to engage the front edge of a sheet therebetween, said cylindrical sheet supporting member having a recessed portion to receive said gripper bars as said gripper bars revolve about the axis of said shaft, and said delivery drive sprockets having a pitch diameter substantially equal to the diameter of said cylindrical sheet supporting member so that the speed of said gripper pads on said gripper bars is substantially equal to the peripheral speed of said cylindrical sheet supporting member when said gripper pads are coincident with the pitch diameter of said drive sprockets as said gripper bars revolve about the axis of said shaft.

CLASS 127-I. I.C.-F15b. 15/00. 140018.

FLUID TIGHT ASSEMBLIES.

*Applicant* : GIRLING LIMITED OF KINGS ROAD, TYSELEY, BIRMINGHAM, 11, ENGLAND.

*Inventors* : FRANCIS ANTONY DAWSON SADLER.

Application No. 1015/Cal/74 filed May 4, 1974.

Convention date May 22, 1973/(24462/73) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

A pressure differential warning assembly comprising a pressure differential warning actuator unit having two separate pressure spaces and being operable to initiate a warning signal upon a pressure failure in either of said space, a further unit having two pressure spaces, and connecting means rigidly and releasably securing the units in direct contact with each other and having passageways which place the pressure spaces of the actuator unit in fluid flow communication with the respective associated pressure spaces in said further unit.

CLASS 63B, 146C & 172F. I.C.-B08b 5/02, 140019. G01b 7/00, D01h 13/32.

METHOD OF AND APPARATUS FOR INCREASING THE LONG-TERM STABILITY OF A MEASURING ELEMENT OF TEXTILE TESTERS.

*Applicant* : ZELLWEGER USTER LTD., (FORMERLY KNOWN AS ZELLWEGER LTD.), USTER FACTORIES FOR APPARATUS AND MACHINES CH-8610 USTER, SWITZERLAND.

*Inventor* : EDUARD HEUSSER.

Application No. 1439/Cal/74 filed June 27, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims.

A method of increasing the long-term stability of the measuring element of textile testers, wherein a secondary air convection which maintains constant ambient conditions in respect of the measuring element is formed in the vicinity of the measuring element from an artificial airstream sweeping away over the top of the measuring element.

CLASS 51C. I.C.-B23P 5/00.

140020.

## MACHINE PARTICULARLY USEFUL FOR CUTTING DIAMONDS AND OTHER PRECIOUS STONES.

*Applicant : & Inventor : JOSEPH AVERBUCH, OF 10 DIZENGOFF STREET, TEL AVIV, ISRAEL*

Application No. 2594/Cal/74 filed November 21, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims.

A machine particularly useful for cutting diamonds and other precious stones, comprising, a stationary frame; a holder for rotatably mounting a tool on the frame about a rotary axis; a swingable arm pivotably mounted at one end of the frame about a pivotal axis parallel to the tool rotary axis and carrying a workpiece holder on its opposite end such as to enable bringing the workpiece into engagement with the tool; a fixed guide member fixed to the stationary frame; a movable guide member mounted for movement with respect to the fixed guide member towards and away from the tool rotary axis; one of said guide members being formed with a first slot, and the other of said guide members being formed with a first projection received in said slot, both slot and projection extending towards the tool rotary axis at an oblique angle thereto; said movable guide member being formed with a second slot extending towards the tool rotary axis at a right angle thereto; a second projection carried by the swingable arm and received in the second slot; said second projection being formed with a rounded surface to permit the projection to roll in the second slot during the pivoting of the swingable arm; and an adjusting device for adjustably moving the movable guide member towards and away from the tool rotary axis to adjustably shift the pivotably mounted end of the swingable arm axially of its pivotal axis.

CLASS 47E. &amp; 88A. I.C.-C10b 39/08.

140021.

## APPARATUS FOR COLLECTING EMISSIONS DISCHARGED INTO ATMOSPHERE FROM HIGH TEMPERATURE CHEMICAL REACTORS.

*Applicant: GREAT LAKES CARBON CORPORATION, OF 299 PARK AVENUE, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.*

Inventors: EDWARD HOWELL ROE AND JAMES DALE PATTON.

Application No. 1083/Cal/73 filed May 8, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims.

Apparatus for collecting gaseous and particulate emissions discharged into the atmosphere from high temperature industrial chemical reactions of the type described herein comprising a housing having a ridged roof, end panels and roof panels which are higher than the emission source and which extend downwardly at an angle from each side of the roof ridge, at least one panel extending inwardly and downwardly from the lower edge of the roof panel on the side of the housing farthest from the emissions source, a vertical wall member depending downwardly from the lower edge of the other roof panel to the top of the apparatus which is the source of emission, a deflector panel extending inwardly and upwardly from the lower edge of said substantially vertical wall member, a duct located in the ridge of the roof and having a progressively increasing cross-sectional area as it approaches a suction means located at the large end of said duct, and openings along the length of the duct.

CLASS 129-O. I.C.-B44b 5/02.

140022.

## PRESS FOR COIN PRESSING BEARING SHELLS.

*Applicant : THE GLACIER METAL COMPANY LIMITED, OF 368 EALING ROAD, ALPERTON, WEMBLEY, MIDDLESEX, ENGLAND.*

Inventors: DAVID MICHAEL GARDNER AND FRANK MACDONALD.

Application No. 1103/Cal/73 filed May 10, 1973.

Convention date May 11, 1972/(21994/72) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims.

A press for coin-pressing separate blanks into semi-cylindrical bearing shells including a pair of forming tools having complementary opposed semi-cylindrical surfaces for forming opposite faces of the shells, and means for bringing the tools together to form the shells, and including also side pieces arranged to come together to clamp the side faces of the blanks while they are being formed into the semi-cylindrical shape, but to unclamp them after the forming tools move apart when the shells have been formed, and a coining face which is moved against the joint faces of the shells to locate them during forming, whereby all the faces of the blanks are located during forming, and retaining means locating said shells in position after forming and following release thereof from said forming tools.

CLASS 179B+F. I.C.-B65b 39/00, B67b 7/00.

140023.

## A FUNNEL WITH A CUTTER.

*Applicant & Inventor : RAMFISHCHANDRA KALIDAS PATEL, AT 3, GARDEN TERRACE, 11TH ROAD, SANTA CRUZ (EAST), BOMBAY-400055, STATE OF MAHARASHTRA, INDIA.*

Application No. 382/Bom/74 filed November 2, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 4 Claims.

A funnel with a piercing cutter for opening a liquid-filled sachet, the funnel being ovoidal with a handle and having a curved bottom with a central circular hole in it and an integral downward nozzle, the inside surface of the curved bottom having diametrically opposite and equidistant from the centre of the hole two identical sets of projections adapted to hold among themselves the cutter, the cutter being a flat sheet of a hard metal with an arrow-head, the arrow-head having equal sharp slant edges and a piercing tip, the base of the cutter having an extension of the width equal to the diameter of the hole and going deep into the nozzle, the cutter having a flap cut out of its flat surface and bent at an acute angle so that the base of the flap rests on the bottom of the funnel, the sachet when introduced into the funnel being cut by the piercing tip and the sharp edges of the cutter, the incision being kept wide open by the flap.

CLASS 39N. I.C.-C01b 25/18.

140024.

## PROCESS FOR THE PREPARATION OF PHOSPHORIC ACID.

*Applicant : MIZUSAWA KAGAKU KOGYO KABUSHIKI KAISHA, OF NO. 2-22, IMABASHI, HIGASHI-KU, OSAKA, JAPAN.*

Inventors: YUJIRO SUGAHARA, YOSHIBUMI NOSHI, HIROYUKI NAITO, AKIRA TAKAHASHI AND SHOJI SHOJI.

Application No. 1632/Cal/73 filed July 11, 1973.

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 19 Claims.

A process for the preparation of phosphoric acid, which process comprises :

(a) forming a mixture comprising phosphate rock, water and 0.7 to 0.97 stoichiometric equivalents, relative to the amount of calcium in the phosphate rock, of sulfuric acid, in proportions such that the ratio of the weight of the phosphate rock to the total weight of the phosphate rock and water is 0.45 : 1 to 0.70 : 1, at a temperature of 30° to 105°C, and under conditions such that calcium sulfate dihydrate, which is formed by the reaction of the calcium component in the phosphate rock with sulfuric acid, is the stable form of calcium sulfate, until the reaction between the sulfuric acid and the phosphate rock is substantially complete,

(b) drying the resulting mixture at a temperature of at most 200°C, under conditions such that the calcium sulfate dihydrate formed in step (a) is converted substantially to anhydrous calcium sulfate or a mixture of anhydrous calcium sulfate and calcium sulfate hemihydrate, and a granular solid reaction product is obtained, and

(c) extracting as hereinbefore described the phosphoric acid from the granular solid reaction product obtained in step (b).

CLASS 32Faa. I.C.-C07C 63/26. 140025.

## PROCESS FOR RECOVERING TEREPHTHALIC ACID DIMETHYLESTER.

Applicant : DYNAMIT NOBEL AKTIENGESELLSCHAFT, OF POSTFACH 1209, 521 TROISDORF, WEST GERMANY.

Inventor : DR. HEINRICH BUNGER AND DR. OTTO BLEH.

Application No. 1798/Cal/73 filed August 3, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims. No drawings.

A process for recovering terephthalic acid dimethylester from the substantially involatile, tar-like residue (obtained by the common oxidation in air of *p*-xylene and *p*-toluic acid methylester in the liquid phase), by esterification of the acids formed with methanol and by separating the terephthalic acid dimethylester formed to leave a residue; which process comprises subjecting the residue to a treatment with methanol at a temperature above 250°C to form terephthalic acid dimethylester, and separating the terephthalic acid dimethylester formed from the residue.

CLASS 205G. I.C.-B60C 23/00. 140026.

## IMPROVEMENTS IN OR RELATING TO TYRE AND WHEEL ASSEMBLIES.

Applicant : DUNLOP LIMITED, OF DUNLOP HOUSE, RYDER STREET, ST. JAMES'S LONDON, S. W. 1, ENGLAND.

Inventors : GEOFFREY LIONEL COULTER AND MICHAEL PETER JAPP.

Application No. 1754/Cal/73 filed July 28, 1973.

Convention date July 29, 1973/(35576/72) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 24 Claims.

A tyre and wheel assembly defining a single inflation chamber comprising a pneumatic tyre, a wheel rim having means to prevent dislodgement of the tyre beads and a lubricant composition comprising a blend of a non-volatile rubber-rubber lubricating material with a mixture of volatile liquids, at least 90% of the mixture of volatile liquids boiling off from the blend under a pressure of 760 mm at temperatures in the range 65°C to 135°C.

## CLASS 50D. I.C.-F25d 31/00.

140027.

## FREEZER PLATES FOR USE IN PLATE FREEZER PLANTS.

Applicant : VOLTAS LIMITED, 19, GRAHAM ROAD, BALLARD ESTATE, BOMBAY-1, MAHARASHTRA, INDIA.

Inventors : COL. NAGESH CHANDRA GUPTA, NATESAN BALASUBRAMANIAN AND SURYA NARAIN TRIPATHI.

Application No. 273/Bom/73 filed August 21, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 8 Claims.

A freezer plate for use in plate freezer plants comprising a cooling coil disposed between an upper plate and a lower plate characterized in that the contact surfaces of the cooling coil are flat and in firm contact with said upper plate and lower plate for efficient heat transfer.

CLASS 105C & 154D+I. I.C.-G06K 15/04.

140028.

## PNEUMATIC ACTUATORS.

Applicant : THE MONOTYPE CORPORATION LIMITED, OF HONEYCROCK LANE, SALFORDS, REDHILL, SURREY, ENGLAND, FORMERLY OF MONOTYPE HOUSE, 43 FETTER LANE, LONDON, E.C. 4, ENGLAND.

Inventors : ZYGMUNT PUDLO AND PETER WILLS.

Application No. 1884/Cal/73 filed August 14, 1973.

Convention date September 7, 1972/(41618/72) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims.

A pneumatic actuator comprising an assembly of serially inter-connected first pistons forming in a common chamber, a series of individually expansible chambers with independent, respective strokes and arranged to provide for an end connector a plurality of possible discrete positions differently spaced from a detum, a rack mounted for lengthwise movement with said end connector, said rack being provided with a plurality of teeth with recesses between said teeth, a plunger arranged to co-operate with the rack to secure the rack and end connector in at least some of the said positions, one end of the plunger being shaped for engagement with said recesses and counter means for providing an indication of the actual position of the rack, said counter means including a light source, and a photocell disposed so that its illumination by the light source is interrupted by the passage of the teeth of the rack, thereby to cause said photocell to produce, when said rack is moved, an output having a number of successive interruptions the number of interruptions providing an indication of the extent of movement of the rack.

CLASS 32A<sub>2</sub>. I.C.-C09b 47/04, 47/08, 47/10, 62/00.

140029.

PROCESS FOR PREPARING COPPER PHTHALOCYANINE PIGMENTS OF THE  $\alpha$ -MODIFICATION.

Applicant : HOECHST AKTIENGESELLSCHAFT, OF 6230, FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors : ERNST SPIETSCHKA, SIEGFRIED SCHIEBLER AND WOLFGANG TRONICH.

Application No. 2791/Cal/73 filed December 22, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims. No drawings.

A process for preparing very pure copper phthalocyanine pigments of the  $\alpha$ -modification, wherein halogen substituted

such as chlorine substituted or unsubstituted copper phthalocyanines having different degrees of purity are converted into copper phthalocyanine salts capable of being isolated, with the aid of suitable acids such as sulphuric acid which dissolve the impurities contained in the dyestuff, wherein these salts are separated from the acid, the copper phthalocyanines of the  $\alpha$ -modification are set free in a pure form from the copper phthalocyanine salts by the action of water and wherein the isolated copper phthalocyanine is subjected in an aqueous suspension to a mechanical fine division.

CLASS 32F<sub>1</sub>+F<sub>2a</sub>+F<sub>b</sub> &60X<sub>d</sub>. I.C.-C07C 13/10, 140030.  
C07d 99/00.

## A PROCESS FOR THE MANUFACTURE OF NEW CYCLOPENTANE DERIVATIVES:

*Applicant*: IMPERIAL CHEMICAL INDUSTRIES LIMITED, OF IMPERIAL CHEMICAL HOUSE, MILBANK, LONDON, S. W. 1, ENGLAND.

*Inventors*: JEAN BOWLER, EDWARD DOUGLAS BROWN, PETER ROBERT MARSHAW AND EDWARD RAYMOND HALSTEAD WALKER.

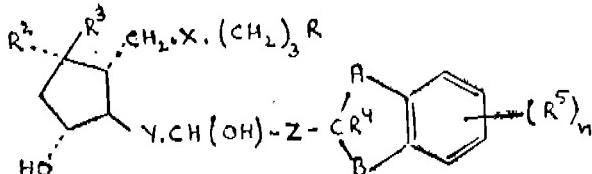
Application No. 120/Cal/74 filed January 17, 1974.

Convention date January 31, 1973/(4769/73) U.K.

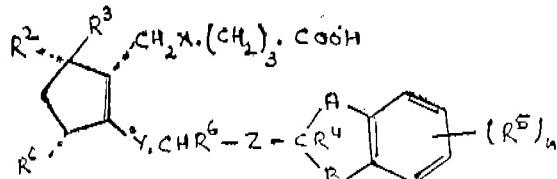
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims.

A process for the manufacture of a cyclopentane derivative of the formula I.



wherein R<sup>1</sup> is a carboxy radical, or an alkoxy carbonyl radical of up to 11 carbon atoms either R<sup>2</sup> is a hydroxy radical or an alkanoyloxy radical of 1 to 4 carbon atoms, and R<sup>3</sup> is a hydrogen atom, or R<sup>2</sup> and R<sup>3</sup> together form an oxo radical; X is an ethylene or cis-vinylenic radical; Y is an ethylene or trans-vinylenic radical; Z is a direct bond or an alkylidene radical of 1 to 5 carbon atoms; either A is an alkylidene radical of 1 to 5 carbon atoms or an ethylene radical, and B is a direct bond, an oxygen or sulphur atom, or an alkylidene radical of 1 to 5 carbon atoms, or A is an oxygen atom and B is an oxygen atom, an alkylideneoxy radical of 1 to 5 carbon atoms wherein the oxygen atom is linked directly to the benzene ring, or an alkylidene (alkylimino) radical [alkylidene-N(alkyl)-] wherein the alkylidene radical is of 1 to 5 carbon atoms and the alkyl radical is of 1 to 4 carbon atoms, and wherein the nitrogen atom is linked directly to the benzene ring; R<sup>4</sup> is a hydrogen atom or an alkyl radical of 1 to 4 carbon atoms, or CR<sup>4</sup> together with an adjacent carbon atom of A or B forms a double bond; R<sup>5</sup> is a halogen atom, or an alkyl, alkoxy or halogenoalkyl radical of 1 to 3 carbon atoms, and n is 0, 1 or 2; which compound bears 0 or 1 alkyl substituent of 1 to 4 carbon atoms on the trimethylene [-CH<sub>2</sub>]<sub>3</sub> group, characterised by the hydrolysis of a compound of the formula V.



or of a mixed anhydride thereof, wherein A, B, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, n, X, Y and Z have the meanings defined above and R<sup>6</sup> is a tetrahydropyran-2-yloxy radical, and bearing 0 or 1 alkyl substituent of 1 to 4 carbon atoms on the methylene group, with an acid, whereafter if a salt is required the product so obtained is reacted with a base, or if a product wherein R<sup>1</sup> is

an alkoxy carbonyl radical is required, a product so obtained wherein R<sup>1</sup> is a carboxy radical, is reacted with a biazoalkane of 1 to 10 carbon atoms, or a salt thereof is reacted with an alkyl halide of 1 to 10 carbon atoms.

CLASS 32F<sub>2</sub>C & 40F. I.C.-C07C 127/04, 140031.  
125/02.

## METHOD OF RECOVERING UNREACTED AMMONIUM CARBAMATE IN UREA SYNTHESIS.

*Applicant*: MITSUI TOATSU CHEMICALS, INCORPORATED OF NO. 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

*Inventors*: SHIGERU INOUE AND TETSUO KIMURA

Application No. 248/Cal/74 filed February 6, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims.

A process for recovering unreacted ammonium carbamate contained in the effluent obtained by reacting at urea synthesis temperatures and pressures carbon dioxide with ammonia in stoichiometric excess, wherein said effluent is subjected to a three stage decomposition to decompose the unreacted ammonium carbamate in each stage, the first second and third stage of which are operated at a gauge pressure of at least 30 kg/cm<sup>3</sup> and a gauge pressure of from 10 to 25 kg/cm<sup>3</sup> and a gauge pressure of from 1 to 5 kg/cm<sup>3</sup> respectively, absorbing said off-gas from said second decomposition stage in an absorbent to form an ammonium carbamate containing absorbate and unabsorbed gaseous ammonia; cooling said unabsorbed gaseous ammonia to form recovered liquid ammonia; absorbing in said ammonium carbamate containing absorbate pressurized to the pressure substantially equal to that of said first decomposition stage substantially all of said gas from said first decomposition stage while removing the heat of absorption by indirect heat exchange with said recovered liquid ammonia pressurized to said urea synthesis pressure, whereby said recovered ammonium carbamate solution is formed and said recovered liquid ammonia is heated to a temperature of from 100 to 160°C and recirculating said recovered ammonium carbamate solution and said pressurized recovered liquid ammonia to the urea synthesis.

CLASS 32F<sub>2</sub>C & 60X<sub>d</sub>. I.C.-C07d 7/00, 7/34. 140032.

## A PROCESS FOR THE PRODUCTION OF A SODIUM SALT OF A NATURAL 2-METHYL CHROMONE ISOLATED FROM THE PODS OF CASSIA SIAMEA.

*Applicant*: THE DIRECTOR, CENTRAL COUNCIL FOR RESEARCH IN INDIAN MEDICINE AND HOMOEOPATHY, E-25, DEFENCE COLONY, NEW DELHI-110024, INDIA.

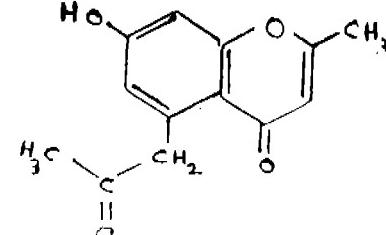
*Inventors*: KUPPIREDDY RAMA SUBBA REDDY, GOTETY SRIMANNARAYANA AND NANDURI VENKATA SUBBA RAO.

Application No. 757/Cal/74 filed April 4, 1974

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims

A process of isolation of "a natural 2-methyl-chromone" of formula (I).



from the pods of *Cassia siamea* by extracting with methanol, concentrating the extract, defatting the same with petroleum

other (60—80°C) and then extracting further with chloroform and concentrating to yield the desired compound in the solid form.

CLASS 56B. I.C.-C10g 9/06.

140033.

**PROCESS OF THERMALLY GASIFYING HYDROCARBONS WITH OXYGEN AND WATER VAPOR AS GASIFYING AGENT.**

*Applicant:* METALLGESELLSCHAFT AKTIENGESELLSCHAFT, OF 16 FRANKFURT A.M., REUTERWEG 14, WEST GERMANY.

*Inventor:* GUNTER POCKRANNDT.

Application No. 766/Cal/74 filed April 5, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**12 Claims.**

A process of thermally gasifying hydrocarbons with oxygen and water vapor as gasifying agents under a pressure of at least 3, preferably at least 20 to above 100 kilograms per square centimeter, and at temperatures in the range of about 1000—1500°C, in a reactor provided with supply conduits for the hydrocarbons, the gasifying agents, and an inert purging gas, particularly nitrogen, which supply conduits are adapted to be opened and closed by valves, and with means for cooling and scrubbing the product gas, which mainly contains carbon monoxide and hydrogen, characterized in that in control sequences during an out-of-normal operation of the gasifying plant, particularly during start-up and shut-down periods, the opening and closing of the valves are accomplished by a permanently wired electric circuit, the operation of which is initiated by an operator and which causes an automatic performance of successive control actions.

CLASS 55E<sub>a</sub>. I.C.-A61K 19/00.

140034.

**A PROCESS FOR THE PREPARATION OF PEPSIN FROM BUFFALO AND GOAT STOMACH.**

*Applicant:* COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventors:* SHRI PERMATMA DAYAL MATHUR, DR. SHRIKANT SHARMA AND DR. COIMBATORE RAM-DORAI KRISHNA MURTI.

Application No. 1203/Cal/74 filed June 1, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**3 Claims. No drawings.**

A process for the production of pepsin from stomach of animals such as buffalo and goat which consists in storage of stomach in an ice box immediately after slaughter of animals, cleaning of stomach with cold water, scraping out of mucosal layer at temperature before 150°C and homogenisation of the scrapings in aqueous hydrochloric acid (pH 3-5) below 150°C characterised in that the homogenate is activated by incubating it in presence of dil. HCl at 35-42°C for 3-6 hours after adjustment to pH 1-3 whereby conversion of pepsinogen to pepsin is maximised.

CLASS 32F<sub>b</sub>. I.C.-C07d 91/04.

140035.

**PROCESS FOR THE PREPARATION OF SUBSTITUTED ISOTHIAZOLYLUREAS.**

*Applicant:* FMC CORPORATION, OF 633, THIRD AVENUE, NEW YORK 17, NEW YORK, UNITED STATES OF AMERICA.

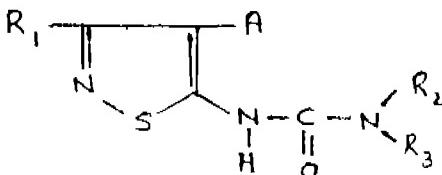
*Inventors:* LOREN KENNETH GIBBONS, ARTHUR ALAN NETHERY AND ARTHUR ALBERT RAMSEY.

Application No. 1535/Cal/74 filed July 9, 1974.

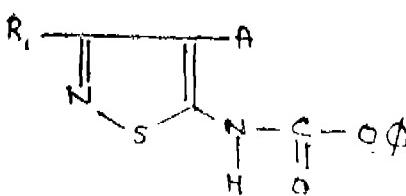
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**4 Claims.**

A process for the preparation of a substituted isothiazolylurea of the formula I.



in which R<sub>1</sub> is straight or branched alkyl of 1 to 8 carbon atoms; R<sub>2</sub> is hydrogen, alkyl, alkoxy or alkenyl of up to 4 carbon atoms or cycloalkyl of 3 to 6 carbon atoms; R<sub>3</sub> is hydrogen, alkyl or alkenyl of up to 4 carbon atoms; R<sub>4</sub> and R<sub>5</sub> may be joined to form a heterocyclic ring of 5 to 7 members, one of which may be oxygen; and A is cyano, carbamoyl, or alkoxy carbonyl in which the alkoxy group contains 1 to 4 carbon atoms characterized in that a phenyl isothiazolyl carbamate of the formula II.



is reacted with an amine HNR<sub>2</sub>R<sub>3</sub> at about 25° to 100° for 1 to 24 hours, and the product is recovered.

CLASS 32F<sub>b</sub>+F<sub>a</sub>. I.C.-C07C 103/00.

140036.

**A PROCESS FOR PREPARATION OF N-ARALKYL- $\alpha$ -SUBSTITUTED PHENOXY-ISO-BUTYRAMIDES.**

*Applicant:* COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

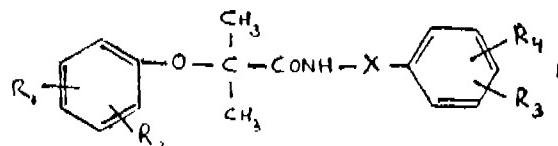
*Inventors:* ASHOK AMBADAS RAO DESHMUKH, SMT. NANDURI BHANUMATI, PRALHAD BALVANT RAO SATTUR AND GURBACHAN SINGH SIDHU.

Application No. 2151/Cal/74 filed September 26, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**3 Claims.**

A process for the preparation of N-aralkyl- $\alpha$ -substituted phenoxy-iso-butyramides represented by the general structure Fig. 1.



wherein :

R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub>

represent hydrogen, halogen such as chlorine, alkyl or alkoxy group embracing C<sub>1</sub> to C<sub>20</sub> carbon atoms either in straight or branched chain and

X

represents an alkyl group embracing C<sub>1</sub> to C<sub>20</sub> carbon atoms either straight or branched chain,

by reacting the acid chloride of substituted or unsubstituted  $\alpha$ -phenoxy-iso-butyric acid with substituted or unsubstituted aralkylamines in presence of aqueous alkali such as sodium or potassium hydroxide employing temperatures ranging from 0 to 20°C for a period of 20 to 120 minutes.

CLASS 99E. I.C.-B65d 11/00, 89/00, 89/02.

140037.

3 Claims.

## IMPROVEMENTS RELATING TO BULK MATERIAL CONTAINERS.

Applicant & Inventors : FRANK NATTRASS, OF "FALLOWS END", BREARTON, HARROGATE, YORKSHIRE, ENGLAND AND PETER JOHNSON NATTRASS, OF "TRESCO", CHAIN LANE, KNARESBOROUGH, YORKSHIRE, ENGLAND.

Application No. 2478/Ca/74 filed November 11, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

A bag for transporting bulk material, the bag having a top and having four separate lifting loops disposed around the top, each loop having a bight and two spaced legs, and each leg being secured to the fabric of the bag by folding the fabric to a substantially S-shaped configuration around the leg and then back over itself and stitching through the three thickness of fabric and the leg.

CLASS 172D<sub>a</sub>. I.C.-D01h 3/18.

140038.

## A ROLLER FOR SPINDLE TAPES OF RING FRAMES.

Applicant & Inventor : SUBBHA NAYUDO THIRUMALEYE SWAME, OF THIRUMALEYE TRADERS, LAKSHMI BUILDINGS, 9/171, PATEL ROAD, COIMBATORE-641009, TAMIL NADU, INDIA.

Application No. 187/Mas/74 filed December 13, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims.

A roller for spindle tapes of ring frames comprising a cylindrical body around which said spindle tapes are capable of being passed; at least one reinforcing member provided within the said body for furnishing adequate structural strength thereto; flanges attached to the ends of said body for enabling a shaft to be inserted into holes centrally located on said flanges so as to pass through said body, the said flanges having, around said holes, tapering split collars which, when constricted, grip said shaft and, when unconstructed form a loose fit around said shaft; rings enclosing, and slidably movable in either direction along the tapering periphery of, the collars so as to constrict or unconstrict said collars, the said rings being threadedly engaged by bolts to said flanges so as to cause said rings to slidably move in either direction as aforesaid and fasten them in any given position around said collars, by manipulating said bolts.

CLASS 32F, -F,b &amp; 60X,d. I.C.-C07d 7/42.

140039.

## PROCESS FOR THE MANUFACTURE OF MORPHOLINE DERIVATIVES.

Applicant : IMPERIAL CHEMICAL INDUSTRIES LIMITED, OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON, SW1P 3JF ENGLAND.

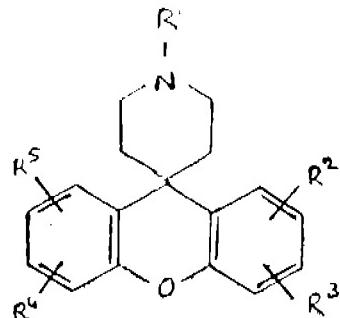
Inventors : RONALD HILSON BEGG GALT AND ROBER JAMES PEARCE.

Application No. 78/Ca/75 filed January 13, 1975.

Convention date February 4, 1974/(05016/74) U.K.

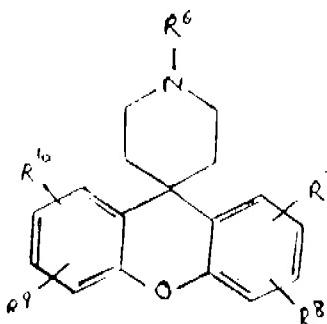
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

A process for the manufacture of a xanthene derivative of the formula I,



wherein R¹ stands for :

(i) A hydrogen atom or an (ii) alkyl radical of 1 to 10 carbon atoms; (iii) an alkenyl radical of 3 to 10 carbon atoms; (iv) a haloalkenyl radical of 3 to 6 carbon atoms; (vi) a cycloalkylalkyl radical of 4 to 7 carbon atoms, optionally substituted in the cycloalkyl nucleus by an aryl radical of 6 to 10 carbon atoms or by one or two alkyl radicals of 1 to 3 carbon atoms; (vii) a phenyl radical; (viii) an arylalkyl radical of 7 to 10 carbon atoms optionally substituted in the aryl nucleus by one to three halogen atoms or alkyl radicals of 1 to 3 carbon atoms; (ix) an aroylalkyl radical of 8 to 12 carbon atoms, optionally substituted in the aryl nucleus by one to three halogen atoms or alkyl radicals of 1 to 3 carbon atoms; (x) a hydroxyalkyl radical of 2 to 5 carbon atoms; (xi) a dialkylaminoalkyl radical of 4 to 8 carbon atoms; (xii) a carbamoylalkyl radical of 2 to 8 carbon atoms; (xiii) an alkylcarbamoylalkyl radical of 3 to 8 carbon atoms; (xiv) a dialkyl-carbamoylalkyl radical of 4 to 8 carbon atoms; or (xv) an alkanoylalkyl radical of 3 to 8 carbon atoms; at least one of R¹, R⁶, R² and R³ is a hydroxy radical and the remaining members of R², R⁶, R⁴ and R⁵, which may be the same or different, stand for (xvi) hydrogen atoms or (xvii) halogen atoms; or for (xviii) alkyl radicals of 1 to 5 carbon atoms; (xix) haloalkyl radicals of 1 to 5 carbon atoms; (xxii) hydroxy radicals; (xxiii) thiol radicals; (xxiv) alkanoylamino radicals of 1 to 5 carbon atoms (xxvi) aroyloxy radicals of 7 to 10 carbon atoms; optionally substituted in the aryl nucleus by one to three halogen atoms or alkyl radicals of 1 to 3 carbon atoms; (xxviii) hydroxyalkyl radicals of 1 to 5 carbon atoms; (xxix) alkylsulphonyl radicals of 1 to 5 carbon atoms; and the pharmaceutically-acceptable acid-addition salts thereof, characterised by replacement by hydrogen of the alkyl part of the alkoxy radical in a compound of the formula III.



with an acid, boron tribromide, pyridine hydrochloride, sodium ethanethiolate, sodium thiophenoxyde or lithium iodide wherein R⁹ has the value stated above for R¹ and in which at least one of R⁷, R⁸, R⁹ and R¹⁰ is an alkoxy radical and the remaining members of R⁷, R⁸, R⁹ and R¹⁰ have the values stated above for R⁴, R⁶, R⁷ and R⁸; whereafter, if desired, the xanthene derivative so obtained may be converted into a pharmaceutically-acceptable acid-addition salt by reaction with an acid.

CLASS 136B + E. I.C.-B28b 1/00, 3/00, 5/00, 21/00. 140040.

METHOD FOR MANUFACTURING SHAPED ARTICLE OF WOLLASTONITE CRYSTALS.

*Applicant*: KABUSHIKI KAISHA OSAKA PACKING SEIZOSHO, 121, 1-CHOME, DAIKOKU-CHO, NANIWA-KU, OSAKA-SHI, JAPAN.

*Inventor*: KAZUHIKO KUBO.

Application No. 215/Cal/75 filed February 5, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

A method for manufacturing a shaped article of wollastonite crystals comprising the steps of:

(i) dispersing agglomerates of wollastonite crystals into water to produce an aqueous dispersion of agglomerates of wollastonite crystals, said agglomerates of wollastonite crystals having a substantially spherical shell construction which has a diameter of upto 150 $\mu$  and comprises a shell and interior space thereby defined, wherein said shell is made of wollastonite crystals containing at least 50% by weight of  $\beta$ -wollastonite crystals interlocked with one another three-dimensionally;

(ii) shaping the resulting dispersion of agglomerates of wollastonite crystals into desired shape by a method like filter molding as hereinbefore described;

(iii) drying the resulting shape to produce a shaped article of wollastonite crystals.

CLASS 32F<sub>2</sub>a & 60X<sub>2</sub>d. I.C.-C07C 79/36. 140041.

PROCESS FOR THE PREPARATION OF 2-NITROBENZALDEHYDE.

*Applicant*: BAYER AKTIENGESELLSCHAFT, OF 509 LEVERKUSEN-BAYERWERK, WEST GERMANY.

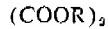
*Inventor*: HORST MEYER.

Application No. 370/Cal/75 filed February 26, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A process for the production of 2-nitrobenzaldehyde in which 2-nitrotoluene is reacted with an oxalic acid dicster of the formula III.



wherein

R is lower alkyl or aralkyl group in the presence of alkali alcoholate and in which the so formed alkali metal salt of 2-nitro-phenylpyruvic acid is oxidised directly (without isolation) or after being isolated, with solid potassium permanganate in alkaline solution at temperatures between -10 and +50°C.

CLASS 32F,b & 60X,d. I.C.-C07d 99/04. 140042.

PROCESS FOR THE PREPARATION OF CLAVULANIC ACID AND DERIVATIVES THEREOF.

*Applicant*: BEECHAM GROUP LIMITED OF BEECHAM HOUSE, GREAT WEST ROAD, BRENTFORD, MIDDLESEX, ENGLAND.

*Inventors*: MARTIN COLE, THOMAS TREVOR HOWARTH AND CHRISTOPHER READING.

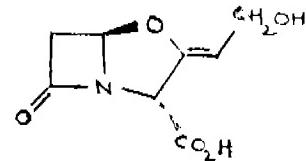
Application No. 743/Cal/75 filed April 14, 1975.

Convention date April 20, 1974/(17410/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

A process for the preparation of clavulanic acid which is the compound of the formula (I)



or a salt or ester thereof, which process comprises the cultivation of a strain of *Streptomyces clavuligerus* in the presence of assimilable sources of carbon, nitrogen and mineral salts in a solid or semi-solid nutritive medium in which the nutrients are dissolved or suspended at a temperature of 15—40°C and pH of between 5 and 8.5 for 2 to 10 days and thereafter extracting clavulanic acid, or a salt thereof, from the culture medium by solvent extraction, anion exchange resin chromatography, extraction into an organic water immiscible polar solvent as a water insoluble amine salt followed by back extraction of clavulanic acid or a salt thereof into an aqueous phase, adsorption onto carbon, ion pair extraction, precipitation, salting out or molecular filtration, and, if desired, further purifying clavulanic acid or a salt thereof by ion exchange columns chromatography and thereafter, if desired, forming an ester by methods known per se, and further, if desired, regenerating the free acids in a known manner.

CLASS 55D<sub>2</sub> & 60X<sub>2</sub>. I.C.-A01N 9/02. 140043.

PROCESS FOR PREPARING A HERBICIDAL COMPOSITION.

*Applicant*: MITSUI TOATSU CHEMICALS, INCORPORATED, OF 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, 100, JAPAN.

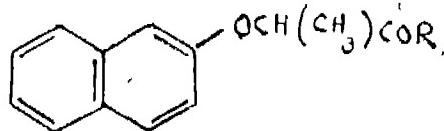
*Inventors*: TERUHIKO TOYAMA, OSAMU MORIKAWA, TOSHIMI TANAKA, YOSHIKATA IIOJO, YOSHIO TAKASAWA AND TAISUKE KURECHI.

Application No. 1760/Cal/75 filed September 15, 1975.

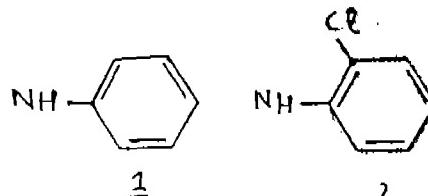
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

A process for the preparation of a herbicidal composition which comprises admixing active ingredients at least one  $\alpha$ -( $\beta$ -naphthoxy) propionic acid derivative expressed by the general formula I.



wherein R represents OH, OCH<sub>3</sub>, or a radical of the formula shown in Figs 1 or 2.



and N-(butoxymethyl)-2-chloro-2', 6'- diethyl acetonilide.

CLASS 64B<sub>2</sub>. I.C.-H01R 15/16. 140044.

PUSH-PULL ELECTRICAL CONNECTOR.

*Applicant*: BUNKER RAMO CORPORATION, OF 900 COMMERCE DRIVE, OAK BROOK, ILLINOIS 60521, UNITED STATES OF AMERICA.

Inventor : JEFFREY BENNETT.

Application No. 1474/Cal/73 filed June 25, 1973.

Convention date June 26, 1972 (29870/72) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims.

An electrical connector comprising first and second parts arranged for relative longitudinal push-pull movement along an axis into and out of connection with one another, the first part having a latch comprising a resilient tine with a cantilevered end including a latch surface, and the second part having a latch surface for engagement with the latch surface of the tine when the tine is deflected towards the axis to a locking position, the first part further comprising a resiliently mounted retaining member disposed inside the tine relative to the axis and resiliently biased into a first position in which it prevents the tine from moving into the locking position and having a second position into which it is moved against the resilient bias by the action of mating the first and second parts, to permit the tine to move into the locking position.

CLASS 29A. I.C.-G06f 15/38. 140045.

#### DIGITAL COMPUTER APPARATUS.

Applicant : BURROUGHS CORPORATION, AT BURROUGHS PLACE, DETROIT, MICHIGAN 48232, UNITED STATES OF AMERICA.

Inventor : BYRON BODY CLAGHORN.

Application No. 1821/Cal/73 filed August 7, 1973.

Convention date March 12, 1973/(11722/73) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A digital computer apparatus for calculating the solutions to various classes of problems in response to data coded in a problem oriented language comprising :—

a central control unit effective for providing overall control of the apparatus under the direction of a plurality of computer instruction sets that reflect the process for calculating the solution to various discrete problem classifications :

a plurality of input-output channels effective for the transmission of data between said central control unit and a plurality of peripheral devices;

and input-output control unit coupled to each input-output channel for regulating the operation of the peripheral device attached to said unit—output channel;

a disk type memory unit coupled through an input-output control unit to one of said input-output channels and effective for storing data and instructions sets in the form of a plurality of electrical signals on a rotating disk;

a data input terminal coupled through an input-output control unit to another of said input-output channels effective for making available instruction sets and data to said apparatus;

a data output terminal coupled through an input-output control unit to still another of said input-output channels and effective for outputting the results calculating by said apparatus;

a high speed core type computer memory in which any location can be addressed in a random manner suitable for storing and maintaining frequently used data and instruction sets;

a plurality of registers to encode and decode the addresses of the location of data within the core memory, and

a processor unit coupled to and under the control of said central control unit suitable for the arithmetic and data manipulation required for obtained solutions for input data in response to said plurality of digital computer instruction sets.

CLASS 48A. I.C.-H02 1/00.

140046.

#### APPARATUS FOR USE IN THE MANUFACTURE OF A WIRING HARNESS.

Applicant : RISTS WIRES & CABLES LIMITED, OF WELL STREET, BIRMINGHAM, ENGLAND, FORMERLY OF LOWER MILEHOUSE LANE, NEWCASTLE UNDER-LYME, STAFFORDSHIRE, ENGLAND.

Inventors : LEWIS JOHN BALL, GORDON ROY FRANK SMITH AND WILLIAM LAWRENCE FRY.

Application No. 1837/Cal/73 filed August 9, 1973.

Convention date August 12, 1972/(37708/72) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims.

Apparatus for use in the manufacture of a wiring harness including a platform upon which the harness leads, each including an outer, thermoplastic sheath, are supported, a dispenser for dispensing thermoplastic tape onto the harness leads, means for heating the mutually presented surfaces of the leads and the tape, a pressure member urging the heated surfaces of the tape and the leads into contact so that the sheaths of the leads fuse to the tape, and further means whereby the leads and the tape can be moved relative to the heater means and the pressure member in the direction of the length of the tape so that the sheaths of the leads are fused to the tape along its length.

CLASS 51D. I.C.-B26b 21/10.

140047.

#### BLADE UNIT HOLDER.

Applicant : MALHOTRA INTERNATIONAL PRIVATE LIMITED, OF 12 NEW C.I.T. ROAD, CALCUTTA-12, WEST BENGAL, INDIA.

Inventor : ARDHENDU MANDAL.

Application No. 1942/Cal/73 filed August 23, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A safety razor comprising a handle and a jaw to hold a blade unit, an ejector for the said blade unit, the handle being made of an upper member and a lower member, the upper member having a jaw inclined to the handle at an angle less than 90 degrees, the lower member having a support for the said jaw, the ejector comprising an inverted substantially U-shaped member made of resilient material, one end of said member having a catch to engage a recess in the blade unit when said blade unit is held by the jaw, the other end of said member having a pushing lug, said member which has the pushing lug projecting out of the handle so that when the said member of the ejector is pressed, the said pushing lug applies ejecting force on the blade unit whereby the said catch can release the blade unit which is ejected from the jaw.

CLASS 23H & 51C + D. I.C.-B65d 83/10.

140048.

#### DISPENSER FOR BLADE UNITS.

Applicant : MALHOTRA INTERNATIONAL LIMITED, OF 12, NEW C.I.T. ROAD, CALCUTTA-12, WEST BENGAL, INDIA.

Inventor : ARDHENDU MANDAL.

Application No. 1943/Cal/73 filed August 23, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A dispenser for blade units comprising a box shaped housing which is able to accommodate a number of blade units arranged in tandem, a slot in the upper wall of the housing to expose the foremost blade unit, a pusher element at the back of the last of the blade units to urge the blade units forward and expose the foremost blade unit, said pusher element being spring loaded to urge forward the blade units arranged in tandem.

CLASS 51C + D. I.C.-B26b 21/54. 140049.

BLADE UNIT.

Applicant : MALHOTRA INTERNATIONAL LIMITED, OF 12, NEW C.I.T. ROAD, CALCUTTA-12, WEST BENGAL, INDIA.

Inventor : ARDHENDU MANDAL.

Application No. 1944/Cal/73 filed August 23, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

A blade unit comprising two gripping elements, the lower gripping element having an inclined face on which the blade is deposited, a curved section guard at the front edge of the said element, said guard being spaced from the main body of the gripping element by links and forming slots between the cutting edge of the blade and the said guard, the main body of the lower gripping element having pin holes axial with the holes in the blades, an upper gripping element having pins to pass through the holes in the blades and the lower gripping element, the forward edge of said upper gripping element terminating a little short of the cutting edge of the blade to expose the same between the guard and the forward edge of said upper gripping element, so that when the blade is deposited upon the lower gripping element and the upper gripping element is thereafter placed on the blade, the pins at the underface of the upper gripping element pass through the holes in the blade and the lower gripping element, thereby gripping the blade.

CLASS 108C<sub>1</sub> + C<sub>2</sub>. I.C.-C21C 5/48. 140050.

IMPROVED Q-BOP VESSEL CONSTRUCTION.

Applicant : USS ENGINEERS AND CONSULTANTS, INC., OF 600 GRANT STREET PITTSBURGH, PENNSYLVANIA, UNITED STATES OF AMERICA.

Inventors : ANDRE HUBERT BRISSE, AND DAVID KALLOM GRIFFITHS.

Application No. 1980/Cal/73 filed August 29, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A vessel for refining a molten bath contained therein, said vessel having an opening in its upper portion and at least one tuyere extending vertically through the bottom of said vessel for introducing refining gas to said bath, each tuyere having a hydraulic diameter (as hereinbefore defined) in horizontal cross-section from 1/25th to 1/13th of the bath depth and having a total cross-sectional area of all such refining gas tuyeres in cm<sup>2</sup> from one to three times the bath size in metric tons.

CLASS 154B + H & 155D. I.C.-D06P 1/00. 140051.

PROCESS AND DEVICE FOR PRODUCING BONDED TEXTILE OR OTHER SHEET MATERIALS HAVING A PATTERNED AND/OR EMBOSSED SURFACE.

Applicant : THE SARANGPUR COTTON MANUFACTURING COMPANY LIMITED, OF AMRAIWADI ROAD, AMEDABAD 8, GUJARAT, INDIA.

Inventor : ANANTHAKRISHNA SUBRAMANIAN.

Application No. 398/Bom/73 filed December 4, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

15 Claims.

A device for producing bonded textile or other sheet materials such as fabrics a metal foil having a patterned and/or embossed surface, which comprises an endless belt conveyor in contact with the surface of which the textile or other material is led, delivery means located at a predetermined position for delivering a supply of film-forming plastics material such as herein described in flowable paste form as a coating on to the upper surface of the moving material, and patterning means in the form of a heavy roller having an indented patterned surface located downstream of the deli-

very means and lying in contact with the moving material on the conveyor in a direction transverse to such material, whereby when the textile or other sheet material with its coating of plastic passes under the roller, the projecting portions of the roller surface in contact with the material hold back by virtue of the weight of the heavy roller the plastic paste over particular areas while the indented areas of the roller surface allow the free passage of the plastic resulting in a patterned surface on the material issuing on the other side of the roller corresponding to the indented pattern of the roller.

CLASS 108C<sub>1</sub> + C<sub>2</sub>. I.C.-C21C 5/06, 5/36. 140052.

METHOD FOR REFINING IRON-BASE METAL.

Applicant & Inventor : CRAWFORD BROWN MURTON, OF 1906 BRUSHCLIFFE ROAD, PITTSBURGH, STATE OF PENNSYLVANIA 15221, UNITED STATES OF AMERICA.

Application No. 1011/Cal/74 filed May 4, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

A method of refining molten steel, to effect rapid solution of solid lime in molten iron and steel mass by inhibiting or substantially reducing the formation of dicalcium silicate, characterized by the step of adding to a molten iron and steel mass a quantity of solid burnt lime and/or dolomitic lime along with a material as herein defined having high basicity and excluding fluorspar that liquifies immediately upon introduction into a reaction zone between the molten iron and steel mass and oxygen to provide a liquid of high basicity that substantially combines with the resulting silica formed by the oxidation of the silicon in the iron, whereby to form a liquid composition in the reaction zone having a reduced acidic condition and thus substantially to reduce or prevent the formation of dicalcium silicate, so as to provide in the molten iron and steel mass a slag devoid of dicalcium silicate encapsulated solid particles of lime.

CLASS 126D. I.C.-G01b 5/02. 140053.

APPARATUS FOR THE TESTING OF ARTICLES.

Applicant : BRITISH STEEL CORPORATION, OF 33, GROSVENOR PLACE, LONDON, S.W.1., ENGLAND.

Inventors : ALEXANDER RANKIN CORNFORTH AND PETER JOHN TRIGG.

Application No. 1273/Cal/74 filed June 11, 1974.

Convention date June 19, 1973/(29000/73) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

Apparatus for testing an article for deviations thereof from an optimum thickness or thickness range, including a thickness measuring device mounted for scanning movement across the article, means for making a plurality of thickness measurements of the article during each scanning movement of the thickness measuring device, electrical means for collecting the thickness measurements of successive groups of a pre-determined theoretical number of measurements during each scan and comparing the collected measurements so obtained with an equivalent collection of predetermined optimum thickness values, and visual recording means for recording each group comparison with symbols indicative of whether the collected thickness measurements for each group are within, greater than or less than the optimum thickness range.

CLASS 168B + C. I.C.-G01R 13/00, G06K 15/20. 140054.

DISPLAY PANEL.

Applicant : BURROUGHS CORPORATION, AT BURROUGHS PLACE, DETROIT, MICHIGAN 48232, UNITED STATES OF AMERICA.

Inventor : THOMAS CHRISTOPHER MALONEY.

Application No. 1612/Cal/74 filed July 19, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims.

A flat panel for displaying bars of light comprising :  
a gas-filled envelope including a base plate and a viewing face plate hermetically sealed together;

a plurality of thin, parallel, linear cathodes disposed in a series along the surface of said base plate and including means whereby each cathode can be separately electrically energized in turn along said series;

an anode electrode overlaying and in operative relation with said series of linear cathodes, and

means for electrically energizing said anode as said series of cathodes is energized.

CLASS 67C. I.C.-H03K 17/08. 140055.

AN ELECTRONIC SWITCH FOR USE IN HAZARDOUS AREAS.

Applicant : FERTILIZER CORPORATION OF INDIA LIMITED, P.O. SINDRI, DISTT. DHANBAD, BIHAR, INDIA.

Inventors : GOKUL PRASAD GUPTA AND JAI SINGH SATYANESON.

Application No. 1855/Cal/74 filed August 17, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims.

An electric switch for use with an auxiliary switch located in a hazardous area comprising a d.c. switching amplifier connected to said auxiliary switch, said amplifier being connected to a load through a relay or contactor.

CLASS 206E. I.C.-B01J 17/00. 140056.

A METHOD OF DEPOSITING A REFRACtORY METAL-SILICON LAYER.

Applicant : RCA CORPORATION, OF 30 ROCKEFELLER PLAZA, NEW YORK, NEW YORK, 100020, UNITED STATES OF AMERICA.

Inventors : ROBERT AMANTEA AND JOSEPH HENRY BANFIELD.

Application No. 2028/Cal/74 filed September 11, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims. No drawings.

A method of depositing a refractory metal-silicon layer in the approximate stoichiometric ratio of a silicide of said metal on a surface of a body of silicon characterized by comprising : particulating a target comprising silicon and a refractory metal selected from the group consisting of platinum, molybdenum, tungsten, rhodium, and rhenium in the approximate stoichiometric ratio of a compound thereof by bombardment of said target with electrically charged particles such as ions and causing the target particles to deposit on said surface.

CLASS 187A. I.C.-H01h 67/26. 140057.

IMPROVEMENTS TO CROSSBAR MULTISWITCHES.

Applicant : INTERNATIONAL STANDARD ELECTRIC CORPORATION, OF 320 PARK AVENUE, NEW YORK 22, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors : SERGE MARCEL YVES MAELSTAF AND JACQUES JOSEPH ANTONE AUTESLEBEN.

Application No. 2029/Cal/74 filed September 11, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims.

A crossbar multiswitch in which the horizontal bar rotation is controlled by two electromagnetic elements and the supervision of the position to which a horizontal bar is set is effected by the action of mechanical elements associated with the bar upon electrical switching elements, in which each horizontal bar is associated with a non-magnetic intermediate

piece presenting two operating means symmetrically placed on either side of the bar, and in which both electromagnetic elements co-operate with said intermediate piece so that they respectively control one of the said operating means by mechanical coupling, which enables the use of elements designed for other purposes in the manufacture of the multiswitch.

CLASS 154D. I.C.-B41J 1/00.

140058.

## SELECTIVE PRINTER.

Applicant : INTERNATIONAL BUSINESS MACHINE CORPORATION, OF ARMONK, NEW YORK 10504, UNITED STATES OF AMERICA.

Inventors : RICHARD LYMAN GILBERT AND MICHAEL DAVID HRYCK.

Application No. 2051/Cal/74 filed September 16, 1974.

Convention date February 27, 1974/(193(591/74), Canada.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims.

A selective printer comprising a type carried formed with a plurality of type characters and movable relative to a print line so as to present said type characters at print positions on said print line, a motor for moving said type carried, a plurality of print hammers, each located at a respective print position, hammer operating means for selectively operating each hammer when the type character required to perform a printing operation is located adjacent to said hammer, a common source of energy for supplying said motor and said hammer operating means, and control means responsive to variations in the speed of said motor due to variations in the value of said source of energy so as to vary the length of time during which said energy is supplied to said hammer operating means, and thereby maintain proper registration between said hammers and said type characters.

CLASS 187E. I.C.-04M 11/00.

140059.

IMPROVEMENTS IN OR RELATING TO TELEPHONE SYSTEMS.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, FEDERAL REPUBLIC OF GERMANY.

Inventor : HERIBERT HOFMEIER.

Application No. 2079/Cal/74 filed September 18, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims.

A telephone system in which telephone subscribers are connected to a telephone exchange via subscriber lines of different lengths, wherein at the exchange end, for automatically setting the loop current in a subscriber line, one wire of the subscriber line is connected via the emitter-collector path of a transistor and a resistor to one pole of a current supply and the other wire of the subscriber line is connected to the other pole of the current supply, wherein the transistor is controlled by a differential amplifier the inputs of which are supplied with the voltage produced at the junction between the resistor and the transistor and with a reference voltage, and wherein for the transmission of the dialing pulses from the subscriber line to the exchange, an optoelectronic switching element couples one wire of the subscriber line to the control wire leading into the exchange.

CLASS 160D & 174B. I.C.-F16f 7/00.

140060.

NOISE ATTENUATING IMPACT ABSORBING MEANS FOR SPROCKET TEETH AND TRACK.

Applicant : CATERPILLAR TRACTOR CO., OF 100 N.E. ADAMS STREET, PEORIA, STATE OF ILLINOIS 61602, UNITED STATES OF AMERICA.

Inventor : HAROLD LAWRENCE REINSMA.

Application No. 2195/Cal/74 filed September 30, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 17 Claims.

A drive sprocket for a track-laying vehicle having a plurality of equiangularly spaced teeth and notches and having impact absorbing noise suppressing means comprising; spring means mounted circumferentially about said sprocket within at least one of said plurality of teeth for absorbing impact energy, first contact means separate from said spring means and mounted radially outwardly from said spring means within said at least one tooth for coacting with said spring means and for transmitting impact forces to said spring means for absorption thereof, seal means mounted within said at least one tooth radially between a portion of said first contact means and said spring means for protectively sealing said spring means.

CLASS 33F+H & 205-J. I.C.-B60b 21/02, 21/10. 140061.

## A CAST ONE-PIECE ANNULAR RIM MEMBER FOR A VEHICLE WHEEL.

Applicant : GEORG FISCHER AKTIENGESELLSCHAFT, OF SCHAFFHAUSEN, SWITZERLAND.

Inventor : HANS KOPP.

Application No. 2271/Cal/74 filed October 10, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims.

Process for the manufacture of an annular rim member to established radial dimensions for use in a vehicle wheel equipped with a pneumatic tire and, in particular, a tubeless tire, with the rim member forming a one-piece annular rim or an annular rim segment including a wheel lip, supporting lugs or a support ring, comprising the steps of forming a mold cavity for the rim member with at least one of a radial overdimension and a radial underdimension at least over an annular portion of the rim cross-section and with the outer surface of the rim member arranged to face the tire having an unsegmented annular area, pouring an iron-carbon melt in the mold cavity for forming a ductile structure, removing the cast rim member from the mold cavity and radially working the solidified cast rim member to achieve plastic deformation and attain the established radial dimensions of the rim member and thereby remove the at least one of a radial overdimension and a radial underdimension.

CLASS 64B<sub>1</sub>, 65B<sub>3</sub> & 97F. I.C.-II05b 1/00, 3/00, 140062. H01R 7/00.

## LOW BALANCED REACTANCE DELTA CLOSURE FOR ELECTRIC ARC FURNACE TRANSFORMERS.

Applicant : USS ENGINEERS AND CONSULTANTS, INC., AT 600 GRANT STREET, PITTSBURGH, STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA.

Inventor : JAMES JOSEPH TRAGESER.

Application No. 2768/Cal/74 filed December 17, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims.

In a three phase electric arc furnace, a low balanced reactance delta closure connecting a power transformer to flexible cables comprising a row of secondary coil terminal blades projecting from a face of the transformer; a plurality of terminal risers, one of each of said risers being connected to each terminal blade; a tubular phase collector for each phase, said collectors being arranged generally parallel to said row of blades and delta connected to said risers; a tubular phase conductor for each phase, said conductors being arranged generally parallel to each other and in a triangular special relation, each of said phase conductors having means connecting one end thereof to one of said phase collectors and; a flexible cable terminal head for each phase mounted on the other end of each of said phase conductors, said other ends being terminated to provide a generally triangular special relation for the flexible cables connected to said terminal heads.

CLASS 24A+B. I.C.-B60f 13/04, 13/10. 140063.

## IMPROVEMENTS IN SHOE DRUM BRAKES FOR VEHICLES.

Applicant : GIRLING LIMITED, OF KINGS ROAD, TYSELEY, BIRMINGHAM 11, WARWICKSHIRE, ENGLAND.

Inventors : GLYN PHILLIP REGINALD FARR.

Application No. 1038/Cal/73 filed May 3, 1973.

Convention date May 4, 1972/(20820/72) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims.

An internal shoe-drum brake of the kind set forth in which the said other end of each shoe has first and second load bearing faces and the parking actuator incorporates expander means acting directly on the first load bearing faces, the abutments being independent of the expander means and being engagable by the second load bearing faces when the brake is applied by the service actuator so that braking forces on the shoes are taken directly by the abutments independently of the expander means when the brake is applied by the service actuator, and in which a force is applied to the shoes by the release of energy stored in the parking actuator upon operation of an actuating member, and the force is applied continuously to urge the shoes into engagement with the drum when the actuating member is operated irrespective of the initial position of the shoes.

CLASS 32C+F<sub>2</sub>a, 55E<sub>1</sub>+E<sub>1</sub> & 60X<sub>2</sub>a.

140064.

I.C.-C07C 103/52, C/2d, 9/00, 9/22,

## A METHOD OF PREPARING DESALANYLTETAIN N-ACYL DERIVATIVES.

Applicant : POLITECHNIKA GDANSKA, OF 11/12, MAJAKOWSKIEGO STR. GDANSK-WRZESZCZ, POLAND.

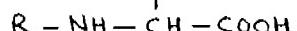
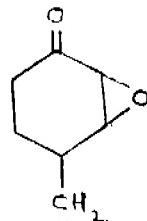
Inventors : EDWARD BOROWSKI, MAGDORZATA GUMIENIAK, MACIEJ SMULKOWSKI, HANNA WOJCIECHOWSKA, HENRYK CHMARA AND WOJCIECH GRUSZECKI.

Application No. 1604/Cal/74 filed July 18, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims.

A method of preparing desalanyltetaine N-acyl derivatives such as described herein having the general formula I.



wherein the R is a radical of an  $\alpha$ -amino acid or peptide characterized in that the amino group of desalanyltetaine or tetaine is acylated by forming in a known manner such as herein described a peptide linkage with a compound selected from the group of N-protected amino acids, peptides and other compounds capable of forming peptide linkage and, if desired, the protective functional group is removed in a known manner such as herein described to form the desired product.

CLASS 32F<sub>2</sub>b. I.C.-C07d 91/30. 140065.

## PROCESS FOR PREPARING THIAZOLE COMPOUNDS.

Applicant : JOHN WYETH & BROTHER LIMITED, OF HUNTEROOMBE LANE SOUTH, TAPLOW, MAIDENHEAD, BERKSHIRE, ENGLAND.

Inventor : ROBERT ANTHONY NEWBERRY.

Application No. 89/Cal/75 filed January 15, 1975.

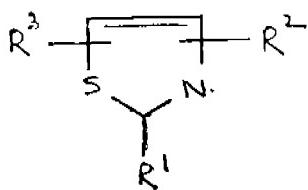
Convention date April 9, 1968/(16909/68) U.K.

Division of Application No. 120606 filed March 28, 1969.

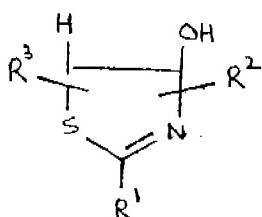
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims.

A process for preparing a thiazole of the general formula I.



wherein R¹ is a substituted or unsubstituted aryl radical (which may be a heteroaryl radical) or a cycloalkyl radical; R² is a lower aliphatic acid radical containing 2 to 6 carbon atoms or a derivative (including esters, nitriles and amides) thereof; R³ is a hydrogen, lower alkyl or a substituted or unsubstituted aryl radical (which may be a hetero-aryl radical) and either the 4- or 5-position contains the radical R⁴, the remaining one of the 4- and 5-positions containing the radical R⁵, which comprises dehydrating a compound of formula II.



wherein R¹, R² and R³ are as defined above, by heating to above the dehydration temperature, if desired in the presence of an acid.

CLASS 32F₁+F₂b & 60X,d. I.C.-C07C 103/00. 140066.

**PROCESS FOR THE PREPARATION OF N, N-DISUBSTITUTED CARBOXYLIC AMIDES.**

Applicant : ESZAKMAGYARORSZAGI VEGYIMUVEK, SAJOBABONY, HUNGARY.

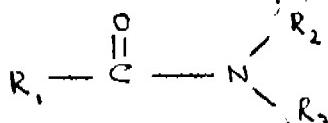
Inventors : MRS. ERZSEBET GREGA, PAL GRIBOVSZKI, SANDOR MAROSVOLGYI, DR. ZOLTA PINTER, GYULA SZILAGYI, DR. ISTVAN SZITA, CSABA TARR AND LASZLO TASI.

Application No. 1762/Cal/75 filed September 15, 1975.

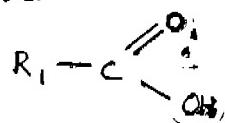
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims.

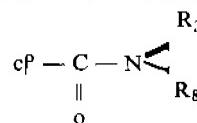
Process for the production of N, N-disubstituted carboxylic amides of the general formula shown in Fig. 1.



wherein R₁ is C₁—C₁₀ straight or branched alkyl, a halogen-substituted alkyl, a phenyl-substituted alkyl, phenyl, chlorodichloro-substituted phenyl, nitro-dinitro-substituted phenyl, trimethoxyphenyl, six-membered unsaturated heterocyclic having a nitrogen atom; R₂ and R₃ are identical or different, C₁—C₁₀ straight or branched alkyl optionally substituted by a C₁—C₁₀ alkoxy group, phenyl optionally substituted by at most two C₁—C₁₀ alkyl groups or R₂ and R₃ form together a six-membered heterocyclic with a nitrogen atom and an oxygen atom, characterised by reacting a carboxylic acid of the general formula shown in Figure 2.



wherein R₁ has the same meaning as above with a carbamoyl chloride of the general formula shown in Figure 3.



wherein R₁ and R₃ have the same meaning as above, at a temperature of 100—300°C, preferably at a temperature of 100—200°C under cleavage of carbon dioxide, and by separating subsequently the N, N-disubstituted carboxylic amide in a known way from the reaction mixture.

## CORRECTION OF CLERICAL ERRORS.

Under Section 78(1) of the Patents Act, 1970, certain clerical errors occurring in the specification of Patent Application No. 137946 were corrected on 24th July 1976.

## PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8, Hastings Street, Calcutta, at two rupees per copy :

(1)

112049 112076 112102 112289 112522 112523 112524 112555  
112619 112632 112645 112752 112871 112910 112927 112961  
113062 113075 113180 113208 113373 113568 113649 113824  
115182 115572 115689 115690 116330.

(2)

107864 112823 112843 112855 112869 112883 112884 112928  
113014 113099 113113 113539 113834 113995 114067 114070  
114073 114127 114151 114153 114194 114561 114622 114623  
114768 114798 115061 115331 116705 117192 117604.

(3)

113973 132062 132557 132778 133541 133667 133685 135412  
(4)  
131103 132099 132991 132998 133143 133277 133361 133383  
135731.

(5)

129200 129205 131102 131682 132158 132623 132639 133764  
(6)  
114215 127864 128585 128755 129075 129087 129162 129215  
129534 130584 130613 131002 131040 131083 131246 131586  
131761 132178 132273 132359 132379 132655 132906 133758  
133759 133857 134454 134906.

## PATENTS SEALED

78943 102610 107629 108198 115645 118748 119194 120410  
124491 124865 126372 126846 126935 127601 127728 127995  
129040 131080 138107 133340 137057 137539 137591 137703  
137717 137740 137752 137756 137761 137767 137806 137821  
137827 137836 137937 137947 137977 137994 137995 137996  
138013 138037 138045 138047 138048 138056 138064 138070  
138074 138076 138118 138348 138373 138440 138510 138668

## AMENDMENT PROCEEDINGS UNDER SECTION 57

(1)

Notice is hereby given that Takeda Chemical Industries Ltd. of 27 Doshomachi 2-Chome, Higashi-ku, Osaka, Japan, a Japanese Company, have made an application under Section 57 of the Patents Act 1970 for amendment of the description and claims the specification of their patent No. 130783 for "Method for producing citric acid." The amendments are by way of correction, explanation and disclaimer. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214 Acharya Jagadish Bose Road, Calcutta-700017, on any working day during the usual office hours or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition, it shall be left within one month from the date of filing the said notice.

(2)

The amendment proposed by Reed Irrigation International in respect of Patent No. 135873 as advertised in Part III, Section 2 of the Gazette of India dated the 24th April, 1976 has been allowed.

(3)

The amendment proposed by Snam Progetti S.P.A. in respect of Patent Application No. 138392 as advertised in Part III, Section-2, of the Gazette of India dated the 27th March, 1976 has been allowed.

#### REGISTRATION OF ASSIGNMENTS, LICENCES, ETC. (PATENTS)

Assignments, licences or other transactions affecting the interests of the original patentees have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests :—

125582	}	M/s. Rhone-Poulenc Industries.
127694		
128535		
131090		
131808		
131809		

#### RENEWAL FEES PAID

77971 78437 78527 78949 83232 83543 83739 83986 84232  
84233 84688 85012 88965 89393 89605 89730 89731 89840  
89921 89945 89980 90004 91782 93912 94544 94625 95082  
95137 95305 95308 95524 95551 95552 95561 95651 95698  
95780 96305 96952 100568 100702 100833 100890 100919  
100948 100949 101055 101126 101212 101274 101416 101420  
101828 101827 101829 101830 101831 103571 105985 106373  
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107447 107527 108003 108504 110177 111815 111849  
111946 111949 111953 112171 112187 112259 112325 112367  
112434 112503 112553 112570 112572 112691 112692 112693  
112856 112857 112858 113068 113655 114840 115461 115462  
116649 116671 116816 116909 116917 117059 117092 117108  
117162 117187 117193 117227 117345 117364 117408  
117470 117471 117475 117559 117583 117721 117788 117789  
117843 117871 117872 118084 118301 118372 121276 121916  
122117 122247 122253 122577 122585 122594 122625 122641  
122644 122645 122651 122789 122843 122873 122882 122931  
122932 122964 132020 123050 123151 123157 123278 123337  
123815 124181 124505 125220 126852 127707 127840 127841  
127960 127963 127988 127990 127992 127994 128028 128031  
128069 128073 128096 128097 128098 128142 131849 128151  
128191 128221 128295 128310 128411 128433 128439 128580  
128608 128886 129155 129156 129410 130633 131359 132322  
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136645 136865 136950 137005 137183 137222 137322 137385  
137530 137654 137667 137693 137695 137695 137787 137892  
138152 138198 138206 138207

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of designs included in the entry.

Class 1. No. 143693. Mitsuba International, 10/13A, Benham Hall Lane, Bombay-400004, Maharashtra State, India. "A battery disconnector switch for automobiles". December 23, 1975.

Class 1. No. 143745. The Sirpur Paper Mills Ltd., a public Limited Company registered under Indian Companies Act, at Sirpur-Kaghaznagar, Adilabad District, Andhra Pradesh. "Slurry pump". December 31, 1975.

Class 1. No. 143747. The Sirpur Paper Mills Ltd., a public Limited Company registered under Indian Companies Act, at Sirpur-Kaghaznagar, Adilabad District, Andhra Pradesh. "Pulp fibre treating machine". December 31, 1975.

Class 1. No. 143749. The Sirpur Paper Mills Ltd., a public Limited Company registered under Indian Companies Act, at Sirpur-Kaghaznagar, Adilabad District, Andhra Pradesh. "Pulp slurry slushing and cooking device". December 31, 1975.

Class 1. No. 143750. The Sirpur Paper Mills Ltd., a public Limited Company registered under Indian Companies Act, at Sirpur-Kaghaznagar, Adilabad District, Andhra Pradesh. "Device for wet pressing of paper web". December 31, 1975.

Class 1. No. 143916. Popular Metal Industry, 1260, Gali Jaman Wali, Kalan Mahal, Darya Ganj, Delhi-110006, a firm registered under the Indian Partnership Act, 1932. "Cigarette lighter". February 2, 1976.

Class 1. No. 143954. Jagson Plastics, 248, Kamla Market, New-Delhi, an Indian partnership concern. "Cabinet coaster set". February 12, 1976.

Class 1. No. 143969. Water Development Society, C-2, Industrial Estate, Moula Ali, Hyderabad-500040, Andhra Pradesh, A society registered under the Hyderabad Public Societies Act-1357 (Fasli). "Guide slide for bore well drilling equipment". February 20, 1976.

Class 1. Nos. 143986 & 143987. Bright Distributors, Swadeshi Market, Sadar Bazar, Delhi-110006, (An Indian Partnership Concern). "Basket". February 24, 1976.

Class 3. No. 143647. Bhanu Pratap Singh Chauhan, G-23, Maharani Bagh, New Delhi, India, an Indian National. "A carrier member for the bristles of a tooth brush". December 6, 1975.

Class 3. No. 143778. Vasudeo Ramchandra Bhide, C/o. Victory Flask Pvt. Ltd., Kachwadi Govandl, Bombay-400088, Maharashtra, State, India, an Indian National "Vacuum flask". January 2, 1976.

Class 3. No. 143830. Larsen & Toubro Limited, of L & T House, Ballard Estate, Bombay-400001, Maharashtra, India, an Indian Company. "A starter". January 6, 1976.

Class 3. 143948. Faizulla Abdulkarim Nagree, an Indian National, of 50, Old Customs House Road, Fort, Bombay-400001, State of Maharashtra, India. "Sofa-cum-bed". February 10, 1976.

Class 3. No. 143966. K. C. Das, Private Ltd., an Indian Company, of 3, Ramkrishna Lane, Calcutta-700003, West Bengal, India. "Packing for sweetmeat". February 19, 1976.

Class 13. No. 143419. S. S. M. Brothers Limited, a (public limited Company, under the Indian Companies Act), Post Box No. 8, 24/103, Gandhipuram, Komarapalayam 638183, Salem District, Tamilnadu, India. "Embroidery Fabrics". September 20, 1975.

#### COPYRIGHT EXTENDED FOR A SECOND PERIOD OF FIVE YEARS

Design Nos. 138712 & 138905..... Class 1.

Design No. 139106..... Class 3.

#### COPYRIGHT EXTENDED FOR A THIRD PERIOD OF FIVE YEARS

Design No. 129014..... Class 4.

S. VEDARAMAN,  
Controller-General of Patents, Designs  
and Trade Marks.